| MMM MMM      |                 | ннн<br>ннн | ннн  |      | RRRRRRRR | *************************************** | LLL            |
|--------------|-----------------|------------|------|------|----------|---|----------------|
| MMM MMM      | TTTTTTTTTTTTTTT | ннн        | HHH  |      | RRRRRRRR | TTTTTTTTTTTTTTT                         | LLL            |
| ммммм ммммм  | TTT             | ннн        | HHH  | RRR  | RRR      | TTT                                     | LLL            |
| ммммм мммммм | TTT             | ннн        | HHH  | RRR  | RRR      | TTT                                     | LLL            |
| ммммм мммммм | TTT             | ннн        | HHH  | RRR  | RRR      | TTT                                     | LLL            |
| MMM MMM MMM  | III             | ннн        | HHH  | RRR  | RRR      | TTT                                     | LLL            |
| MMM MMM MMM  | TTT             | ННН        | HHH  | RRR  | RRR      | TTT                                     | LLL            |
| MMM MMM MMM  | TTT             | ннн        | HHH  | RRR  | RRR      | TTT                                     | LLL            |
| MMM MMM      | TTT             | нинининини |      |      | RRRRRRRR | TTT                                     | LLL            |
| MMM MMM      | TTT             | нинининини |      | RRRR | RRRRRRRR | TTT                                     | LLL            |
| MMM MMM      | III             | нинининини | нннн |      | RRRRRRRR | TTT                                     | LLL            |
| MMM MMM      | TTT             | ННН        | HHH  | RRR  | RRR      | TTT                                     | LLL            |
| MMM MMM      | 111             | ннн        | HHH  | RRR  | RRR      | TTT                                     | LLL            |
| MMM MMM      | III             | ННН        | HHH  | RRR  | RRR      | TTT                                     | LLL            |
| MMM MMM      | TTT             | ННН        | HHH  | RRR  | RRR      | TTT                                     | LLL            |
| MMM MMM      | TTT             | ннн        | HHH  | RRR  | RRR      | TTT                                     | LLL            |
| MMM MMM      | III             | ннн        | HHH  | RRR  | RRR      | TTT                                     | LLL            |
| MMM MMM      | TTT             | ннн        | HHH  | RRR  | RRR      | TTT                                     | LLLLLLLLLLLLLL |
| MMM MMM      | TIT             | ННН        | HHH  | RRR  | RRR      | TTT                                     | LLLLLLLLLLLLLL |
| MMM MMM      | TTT             | ннн        | HHH  | RRR  | RRR      | TTT                                     | LLLLLLLLLLLLLL |

SYMIT MITTER MIT

| MM MMM MMMM MMMM MMMMM MMM MM MM MM MM MM | HH HH HH HH HH HH HH HH HH HHHHHHHHHH HH                                     | VV | 00000000<br>00000000000000000000000000000 |  | 000000<br>000000<br>00 00<br>00 00<br>00 00<br>00 00<br>00 00<br>00 00<br>00 00<br>00 00<br>00 00<br>00 00 |
|---|--|--|---|--|--|
|   | \$ |  |   |  |  |

MT 1-

....

- Entry vector for MTHRTL.EXE I 3 16-SEP-1984 01:00:45 VAX/VMS Macro V04-00 MTH\$VECTOR Table of contents Page 0 106 (2) DECLARATIONS MTHRTL Vector

MT 110

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MT

.TITLE MTH\$VECTOR - Entry vector for MTHRTL.EXE .IDENT /1-002/ ; File: MTHVECTOR.MAR Edit: LEB1002

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: FACILITY: Run-Time Library - Mathematics procedures

ABSTRACT:

This module contains the entry vector definitions for the VAX-11 Run-Time Library shareable image MTHRTL.EXE

ENVIRONMENT: User mode, AST Reentrant

J 3

AUTHOR: Steven B. Lionei, CREATION DATE: 29-October-1982

MODIFIED BY:

1-001 - Original, SBL 29-October-1982

; 1-002 - Add remaining non-shared MTH\$ entry points. LEB 20-May-1983

.PSECT \$MTH\$VECTOR PIC, USR, CON, REL, LCL, SHR, - EXE, RD, NOWRT, LONG

3

MTHSVECTOR

- Entry vector for MTHRTL.EXE DECLARATIONS 0000 104

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16-SEP-1984 01:00:45 VAX/VMS Macro V04-00 Page 6-SEP-1984 11:27:25 [MTHRTL.SRC]MTHVECTOR.MAR;1

(2)

MT 1-

```
.SBTTL MTHRTL Vector
108
109
110
111
112
113
114
115
116
         Define vectored entry points for the Mathematics Procedures by module in alphabetical order.
         Any additions to this file should be reflected in COMS:MTHRTLVEC.DAT. All new entry points must be appended to the end of the list. NEVER change existing entries unless you are sure that what you do won't break existing programs.
      ; Module MTH$ACOS
120
121
122
123
124
126
127
128
129
130
                    VCALL
                                 MTH$ACOS
                    VCALL
                                 MTH$ACOSD
                                 MTH$ACOSD_R4
MTH$ACOS_R4
MTH$ACOS_R5
                    VJSB
                    VJSB
                    VJSB
      ; Module MTH$AINT
                    VCALL
                                 MTH$AINT
                    VJSB
                                 MTHSAINT_R2
131
132
133
134
136
137
138
139
      : Module MTH$ALOG
                    VCALL
                                 MTH$ALOG
                    VCALL
                                 MTH$ALOG10
                                 MTH$ALOG10_R5
                    VJSB
                                 MTH$ALOG2
                    VCALL
                    VJSB
                                 MTHSALOG_R5
      : Module MTH$AMOD
141
142
143
                    VCALL MTHSAMOD
144
145
146
147
      : Module MTH$ANINT
                    VCALL MTHSANINT
1489
1450
1553
1556
1556
161
162
      : Module MTH$ASIN
                    VCALL
                                 MTH$ASIN
                                 MTHSASIND
MTHSASIND R4
MTHSASIN_R4
                    VCALL
                    VJSB
                                  MTHSASIN_R5
                    VJSB
         Module MTH$ATAN
                                 MTHSATAN
MTHSATAN2
MTHSATAND
                    VCALL
                    VCALL
                    VCALL
                                  MTH$ATAND2
                                  MTHSATAND_R4
```

MI

: Module MTH\$CGSQRT

; Module MTH\$CLOG

VCALL MTHSCGSQRT

MT 1-

MTH

Sym

MTH MTH

MTH MTH MTH MTH MTH MTH MTH MTH MTH MTH

MTH MTH MTH MTH

MTH

MTH MTH MTH MTH MTH MTH MTH MTH MTH MTH

MTH MTH MTH MTH MTH MTH MTH MTH MTH MTH

```
VCALL
                             MTH$CLOG
: Module MTH$COSH
                    VCALL
                            MTH$COSH
            ; Module MTH$CSINCOS
                            MTH$CCOS
MTH$CSIN
                    VCALL
                    VCALL
            ; Module MTH$CSQRT
```

VCALL MTH\$CSQRT

B 4

; Module MTH\$DACOS

VCALL MTH\$DACOS VCALL MTH\$DACOSD VJSB MTH\$DACOSD\_R7 MTH\$DACOS\_R7 VJSB MTH\$DACOS\_R9

; Module MTH\$DASIN

VCALL MTH\$DASIN VCALL MTH\$DASIND VJSB MTH\$DASIND\_R7 MTH\$DASIN\_R7 VJSB MTH\$DASIN\_R9 VJSB

; Module MTH\$DATAN

MTH\$DATAN VCALL MTHSDATAN2 VCALL VCALL MTH\$DATAND VCALL VJSB VJSB MTH\$DATAND2 MTH\$DATAND\_R7 MTHSDATAN\_R7

; Module MTH\$DATANH

MTH\$DATANH VCALL

; Module MTH\$DCOSH

MTH\$DCOSH VCALL

; Module MTH\$DEXP

MTH\$DEXP MTHSDEXP\_R6 MTHSDEXP\_R7 VJSB

Module MTH\$DINT

VCALL

```
- Entry vector for MTHRTL.EXE MTHRTL Vector
                                        MTHSDINT_R4
                              VCALL
                      Module MTH$DLOG
                                        MTH$DLOG
MTH$DLOG10
MTH$DLOG10_R8
MTH$DLOG2
                              VCALL
                              VCALL
                              VCALL
                              VJSB
                                        MTH$DLOG_R8
                    ; Module MTH$DMOD
                              VCALL
                                        MTH$DMOD
                    ; Module MTH$DNINT
                                        MTH$DNINT
                              VCALL
                      Module MTH$DSINCOS
                              VCALL
                                        MTH$DCOS
                              VCALL
                                        MTH$DCOSD
                              VJSB
VJSB
                                        MTH$DCOSD_R7
                                        MTHSDCOS_R7
                              VCALL
                                        MTH$DSIN
                              VCALL
                                        MTH$DSINCOS
                              VCALL
                                        MTH$DSINCOSD
                                        MTH$DSINCOSD_R7
MTH$DSINCOS_R7
MTH$DSINCOS_R7
MTH$DSIND_R7
MTH$DSIND_R7
MTH$DSIN_R7
                              VJSB
                              VJSB
                              VCALL
                              VJSB
                              VJSB
                    : Module MTH$DSINH
                              VCALL
                                        MTH$DSINH
                    : Module MTH$DSQRT
                              VCALL
                                        MTH$DSQRT
                                        MTH$DSQRT_R5
                      Module MTH$DTAN
                              VCALL
                                        MTH$DTAN
                                        MTHSDTAND
                              VJSB
                                        MTHSDTAND R7
                              VJSB
                                        MTHSDTAN_R7
                      Module MTH$DTANH
                                        MTH$DTANH
                              VCALL
                      Module MTHSEXP
```

VCALL

MTHSEXP

C 4

MTH Sym MTH 

(3)

VAX/VMS Macro V04-00 [MTHRTL.SRC]MTHVECTOR.MAR;1

0 4

Sym

OTS OTS OTS OTS OTS OTS OTS

MTH

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Pha ---Ini Com Pas Sym Pas Sym Pse Cro

The 337 The 920 3 p

ASS

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Mac \$2

```
MAC
```

```
VJSB
                     MTHSEXP_R4
  Module MTH$GACOS
                    MTH$GACOS
MTH$GACOSD
MTH$GACOSD_R7
MTH$GACOS_R7
MTH$GACOS_R9
          VCALL
          VCALL
          VJSB
          VJSB
          VJSB
  Module MTH$GASIN
          VCALL
                     MTH$GASIN
                    MTHSGASIND
MTHSGASIND_R7
          VCALL
          VJSB
          VJSB
                     MTHSGASIN_R7
                    MTHSGASIN_R9
          VJSB
; Module MTH$GATAN
          VCALL
                     MTH$GATAN
          VCALL
                     MTH$GATAN2
          VCALL
                     MTH$GATAND
          VCALL
VJSB
                     MTH$GATAND2
                    MTHSGATAND_R7
MTHSGATAN_R7
          VJSB
: Module MTH$GATANH
          VCALL
                    MTH$GATANH
: Module MTH$GCOSH
                    MTH$GCOSH
          VCALL
: Module MTH$GEXP
          VCALL
VJSB
VJSB
                    MTH$GEXP
MTH$GEXP_R6
MTH$GEXP_R7
; Module MTH$GINT
          VCALL
                    MTHSGINT_R4
; Module MTH$GLOG
                    MTH$GLOG
MTH$GLOG10
MTH$GLOG10_R8
          VCALL
          VCALL
          VJSB
                    MTH$GLOG2
          VCALL
          VJSB
                    MTH$GLOG_R8
```

Module MTH\$GMOD

VCALL

MTH\$GMOD

```
VAX/VMS Macro V04-00
[MTHRTL.SRC]MTHVECTOR.MAR; 1
                                                          (3)
```

```
; Module MTH$GNINT
                     MTH$GNINT
           VCALL
; Module MTH$GPROD
           VCALL MTHSGPROD
: Module MTH$GSINCOS
          VCALL
VCALL
VJSB
VJSB
                     MTH$GCOS
MTH$GCOSD
                     MTH$GCOSD_R7
                     MTH$GCOS_R7
          VCALL
VCALL
VJSB
VJSB
                     MTH$GSIN
                     MTHSGSINCOS
MTHSGSINCOSD
MTHSGSINCOSD R7
MTHSGSINCOS_R7
                     MTHSGSIND R7
MTHSGSIND R7
MTHSGSIN_R7
           VCALL
           VJSB
; Module MTH$GSINH
           VCALL
                     MTH$GSINH
: Module MTH$GSQRT
          VCALL
                     MTH$GSQRT
                     MTH$GSQRT_R5
  Module MTH$GTAN
          VCALL
VCALL
VJSB
VJSB
                     MTH$GTAN
MTH$GTAND
                     MTHSGTAND R7
MTHSGTAN R7
: Module MTH$GTANH
           VCALL MTHSGTANH
  Module MTH$HACOS
           VCALL
                     MTH$HACOS
           VCALL
                     MTH$HACOSD
                     MTH$HACOSD_R8
           VJSB
           VJSB
                     MTHSHACOS_R8
  Module MTH$HASIN
                     MTHSHASIND
MTHSHASIND R8
           VCALL
           VJSB
```

VJSB

MTH\$HASIN\_R8

OTS

```
; Module MTH$HATAN
           VCALL
VCALL
VCALL
VCALL
VJSB
VJSB
                       MTHSHATAN
MTHSHATAN2
                       MTH$HATAND
                       MTH$HATAND2
                       MTHSHATAND_R8
                       MTHSHATAN_R8
: Module MTH$HATANH
           VCALL
                      MTHSHATANH
: Module MTH$HCOSH
           VCALL MTHSHCOSH
; Module MTH$HEXP
           VCALL
                      MTH$HEXP
                      MTHSHEXP_R6
; Module MTH$HINT
           VCALL
                      MTHSHINT R8
: Module MTH$HLOG
                      MTH$HLOG
           VCALL
                      MTH$HLOG10
           VCALL
                      MTH$HLOG10_R8
           VJSB
                      MTH$HLOG2
           VCALL
           VJSB
                      MTH$HLOG_R8
: Module MTH$HMOD
           VCALL
                      MTH$HMOD
: Module MTH$HNINT
           VCALL MTHSHNINT
; Module MTH$HSINCOS
                      MTHSHCOS
MTHSHCOSD
MTHSHCOSD R5
MTHSHCOS R5
MTHSHSIN
MTHSHSINCOS
MTHSHSINCOSD
MTHSHSINCOSD R7
MTHSHSINCOS R7
MTHSHSIND R5
           VCALL
           VCALL
VJSB
VJSB
VCALL
VCALL
VCALL
VJSB
VJSB
```

VCALL

```
- Entry vector for MTHRTL.EXE
```

VJSB MTHSHSIN\_R5

G 4

; Module MTH\$HSINH

VCALL MTHSHSINH

; Module MTH\$HSQRT

VCALL MTH\$HSQRT VJSB MTH\$HSQRT\_R8

: Module MTHSHTAN

VCALL MTH\$HTAN
VCALL MTH\$HTAND
VJSB MTH\$HTAND\_R5
VJSB MTH\$HTAND\_R7
VJSB MTH\$HTAN\_R5
VJSB MTH\$HTAN\_R7

: Module MTH\$HTANH

VCALL MTHSHTANH

: Module MTH\$RANDOM

VCALL MTH\$RANDOM

; Module MTH\$SIGN

VCALL MTH\$SIGN

Module MTH\$SINCOS

VCALL MTH\$COS VCALL MTH\$COSD VJSB MTH\$COSD R4 VJSB MTH\$COS\_R4 VCALL MTH\$SIN VCALL MTH\$SINCOS VCALL MTH\$SINCOSD VJSB MTH\$SINCOSD R5 VJSB MTH\$SINCOS\_R5 VCALL MTH\$SIND R4 VJSB MTH\$SIND R4 VJSB MTH\$SIN\_R4

Module MTH\$SINH

VCALL MTH\$SINH

; Module MTH\$SQRT

VCALL MTH\$SQRT\_R3

: Module MTH\$SQRTR2

```
VJSB
              MTH$SQRT_R2
 Module MTHSTAN
: Module MTH$TANH
      VCALL MTHSTANH
: Module OTS$DIVC
     VCALL OTS$DIVC
: Module OTS$DIVCD
     VCALL OTS$DIVCD_R3
; Module OTS$DIVCG
     VCALL OTS$DIVCG_R3
; Module OTS$MULCD
    VCALL OTS$MULCD_R3
; Module OTS$MULCG
    VCALL OTS$MULCG_R3
: Module OTS$POWCC
     VCALL OTS$POWCC
: Module OTS$POWCDCD
   VCALL OTS$POWCDCD_R3
: Module OTS$POWCDJ
     VCALL OTS$POWCDJ_R3
: Module OTS$POWCGCG
    VCALL OTS$POWCGCG_R3
: Module OTS$POWCGJ
   VCALL OTS$POWCGJ_R3
```

: Module OTS\$POWCJ

16-SEP-1984 01:00:45 VAX/VMS Macro V04-00 Page 6-SEP-1984 11:27:25 [MTHRTL.SRC]MTHVECTOR.MAR;1

VCALL OTS\$POWCJ Module OTS\$POWDD OTS\$POWDD OTS\$POWDR OTS\$POWRD ; Module OTS\$POWDJ VCALL OTS\$POWDJ : Module OTS\$POWDLU VCALL OTS\$POWDLU : Module OTS\$POWGG VCALL OTS\$POWGG : Module OTS\$POWGJ VCALL OTS\$POWGJ : Module OTS\$POWGLU VCALL OTS\$POWGLU : Module OTS\$POWHH VCALL OTS\$POWHH\_R3 ; Module OTS\$POWHJ VCALL OTS\$POWHJ\_R3 : Module OTS\$POWHLU VCALL OTS\$POWHLU\_R3 : Module OTS\$POWII VCALL OTS\$POWII : Module OTS\$POWJJ VCALL OTS\$POWJJ ; Module OTS\$POWLULU VCALL OTS\$POWLULU

: Module OTS\$POWRJ

VCALL OTS\$POWRJ

01

```
- Entry vector for MTHRTL.EXE MTHRTL Vector
                                                   16-SEP-1984 01:00:45 VAX/VMS Macro V04-00 6-SEP-1984 11:27:25 [MTHRTL.SRC]MTHVECTOR.MAR;1
                    ; Module OTS$POWRLU
                              VCALL OTSSPOWRLU
               ; Module OTS$POWRR
                              VCALL OTSSPOWRR
                   End of initial MTHRTL vector. All subsequent additions must be made after this point.
      0700
                   : All remaining MTH$ entry points which were previously non-shared, are now shared for V3B.
      0700
      07D0
      07D0
      0700
      0700
      07D0
                    : Module MTHSABS
      07D0
      07D0
                              VCALL
                                        MTH$ABS
                              VCALL
                                        MTH$DABS
                              VCALL
                                        MTH$GABS
                              VCALL
                                        MTH$HABS
                              VCALL
                                        MTH$IIABS
                              VCALL
                                        MTH$JIABS
      Module MTH$BITOPS
                              VCALL
                                        MTH$ I I AND
                              VCALL
                                        MTH$IIEOR
                                        MTHSIIOR
MTHSIISHFT
                              VCALL
                              VCALL
                              VCALL
                                        MTH$INOT
                              VCALL
                                        MTH$JIAND
                                        MTH$JIEOR
                              VCALL
                                       MTHSJIOR
MTHSJISHFT
MTHSJNOT
                              VCALL
                              VCALL
                              VCALL
                    : Module MTH$CONJG
                              VCALL MTH$CONJG
                      Module MTH$CONVER
                                       MTHSAIMAG
MTHSCMPLX
MTHSDBLE
MTHSDCMPLX
MTHSDFLOTI
                              VCALL
                              VCALL
                              VCALL
                              VCALL
                              VCALL
                                        MTH$DFLOTJ
                              VCALL
                                        MTH$DIMAG
                              VCALL
                              VCALL
VCALL
VCALL
                                        MTH$DREAL
                                        MTH$FLOATI
```

MTH\$FLOATJ

015

OTS

```
- Entry vector for MTHRTL.EXE MTHRTL Vector
```

```
MTHSGCMPLX
MTHSGDBLE
MTHSGFLOTI
MTHSGFLOTJ
MTHSGIMAG
MTHSGREAL
MTHSIIDINT
            VCALL
VCALL
VCALL
                                 VCALL
                                 VCALL
                                 VCALL
                                               MTHSIINT
                                 VCALL
                                               MTHSIIFIX
                                 VCALL
                                               MTH$IIGINT
08F0
08F8
0900
0900
0908
0910
0918
                                               MTHSIIHINT
                                 VCALL
                                               MTH$JIDINT
                                               MTH$JINT
MTH$JIFIX
                                 VCALL
                                               MTH$JIGINT
MTH$JIHINT
                                 VCALL
                                 VCALL
                                 VCALL
                                               MTHSREAL
                                 VCALL
                                               MTH$SNGL
                                 VCALL
                                               MTH$SNGLG
```

## : Module MTH\$CVTDG

MTHSCVT\_DA\_GA MTHSCVT\_D\_G MTHSCVT\_GA\_DA MTHSCVT\_G\_D VCALL VCALL VCALL VCALL

; Module MTH\$DCONJG

MTH\$DCONJG VCALL

: Module MTH\$DFLOOR

VCALL MTH\$DFLOOR MTH\$DFLOOR\_R3

; Module MTH\$DIM

MTH\$DDIM VCALL VCALL MTH\$DIM MTH\$GDIM VCALL MTHSHDIM VCALL MTHSIIDIM VCALL MTH\$JIDIM

; Module MTH\$DMAX1

VCALL MTHSDMAX1

; Module MTHSDMIN1

MTH\$DMIN1 VCALL

: Module MTH\$DPROD

VCALL MTH\$DPROD

```
16-SEP-1984 01:00:45 VAX/VMS Macro V04-00 
6-SEP-1984 11:27:25 [MTHRTL.SRC]MTHVECTOR.MAR;1
```

```
: Module MTH$DSIGN
```

VCALL MTH\$DSIGN

; Module MTH\$FLOOR

MTH\$FLOOR\_R1 VCALL

; Module MTH\$GCONJG

VCALL MTHSGCONJG

: Module MTH\$GFLOOR

VCALL MTH\$GFLOOR MTH\$GFLOOR\_R3

: Module MTH\$GMAX1

VCALL MTH\$GMAX1

; Module MTH\$GMIN1

VCALL MTHSGMIN1

: Module MTH\$GSIGN

VCALL MTHSGSIGN

: Module MTH\$HFLOOR

MTH\$HFLOOR MTH\$HFLOOR\_R7 VCALL VJSB

: Module MTH\$HMAX1

VCALL MTHSHMAX1

: Module MTH\$HMIN1

VCALL MTHSHMIN1

: Module MTH\$HSIGN

VCALL MTH\$HSIGN

; Module MTH\$IIDNNT

VCALL MTH\$IIDNNT

: Module MTH\$IIGNNT

VCALL MTH\$IIGNNT

: Module MTHSIIHNNT

01

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```
VCALL
                             MTHSIIHNNT
           ; Module MTH$IISIGN
                    VCALL MTHSIISIGN
            ; Module MTH$IMAXO
                    VCALL
                            MTH$AIMAXO
MTH$IMAXO
            : Module MTH$IMINO
                    VCALL
                            MTHSAIMINO
MTHSIMINO
           : Module MTH$ININT
                    VCALL MTHSININT
           ; Module MTH$JIDNNT
                    VCALL MTH$JIDNNT
           ; Module MTH$JIGNNT
                    VCALL MTH$JIGNNT
           : Module MTH$JIHNNT
                    VCALL MTH$JIHNNT
           ; Module MTH$JISIGN
                    VCALL MTH$JISIGN
           : Module MTH$JMAXO
                             MTH$AJMAXO
                    VCALL
                             MTH$JMAXO
            : Module MTH$JMINO
                             MTH$AJMINO
                    VCALL
                    VCALL
                             MTHSJMINO
           : Module MTH$JNINT
0AA8
0AB0
0AB0
0AB0
0AB0
0AC0
                    VCALL MTH$JNINT
           ; Module MTH$MAX1
                    VCALL
                             MTHSAMAX1
                    VCALL
                             MTH$IMAX1
                             MTH$JMAX1
```

: Module MTH\$MIN1

| MTH\$VECTOR<br>1-002 | - Entry vec  | tor for   | r MTHRTL.EXE            | N 4                                 | 16-SEP-1984<br>6-SEP-1984 | 01:00:45<br>11:27:25 | VAX/VMS Macro V04-00 PERMITTEL SRCJMTHVECTOR MAR; 1 | age 18 |
|----------------------|--|---|-------------------------|-------------------------------------|---------------------------|----------------------|---|--------|
|                      | OAC8<br>OAC8<br>OAD0<br>OAD0<br>OAE0<br>OAE0<br>OAE0<br>OAF0<br>OAF0<br>OAF0<br>OAF0<br>OAF8<br>OBO0<br>OBO0 | 904<br>905<br>906<br>907<br>908<br>910<br>9112<br>913<br>9145<br>916<br>918<br>919<br>919<br>919<br>919 | VCALL<br>VCALL<br>VCALL | MTHSAMIN1<br>MTHSIMIN1<br>MTHSJMIN1 |                           |                      |   |        |
|                      | OAEO<br>OAEO   | 908   | Module MTH\$MO          |                                     |                           |                      |   |        |
|                      | OAEO<br>OAEO   | 910<br>911  | VCALL                   | MTH\$IMOD<br>MTH\$JMOD              |                           |                      |   |        |
|                      | OAFO<br>OAFO   | 913<br>914 ;  | Module MTH\$SG          |                                     |                           |                      |   |        |
|                      | 0AF 0<br>0AF 0<br>0AF 8  | 915<br>916<br>917   | VCALL                   | MTH\$SGN<br>MTH\$SGN_R              | 1                         |                      |   |        |
|                      | 0800<br>0800<br>0800   | 918<br>919<br>920   | .END                    | mmeson_k                            |                           |                      | ; End of module MTH\$VECTOR                         |        |
|                      |  |   |                         |                                     |                           |                      |   |        |
|                      |  |   |                         |                                     |                           |                      |   |        |
|                      |  |   |                         |                                     |                           |                      |   |        |
|                      |  |   |                         |                                     |                           |                      |   |        |
|                      |  |   |                         |                                     |                           |                      |   |        |
|                      |  |   |                         |                                     |                           |                      |   |        |

OT

MTH\$ACOS MTH\$ACOSD MTH\$ACOSD\_R4 MTHSACOS\_R4 MTHSACOS\_R5 MTH\$AIMAG MTH\$AIMAXO MTH\$AIMINO MTHSAINT MTHSAINT\_R2 OXAMLAZHTM MTHSAJMINO MTH\$ALOG MTH\$ALOG10 MTH\$ALOG10\_R5 MTHSALOG2 MTHSALOG\_R5 MTHSAMAX' MTHSAMIN' MTH\$AMOD MTH\$ANINT MTH\$ASIN MTH\$ASIND MTHSASIND\_R4 MTHSASIN\_R4 MTH\$ASIN\_R5 MTHSATAN' MTH\$ATAN2 MTHSATAND MTH\$ATAND2 MTHSATAND R4 MTH\$ATANH MTHSATAN\_R4 0 MTH\$DEXP 01 01 MTHSGATAN2 0 MTHSDEXP\_R6 MTHSDEXP\_R7 MTH\$CABS \*\*\*\*\*\*\* \*\*\*\*\*\*\* 01 MTHSGATAND \*\*\*\*\*\*\* 01 Ō' MTH\$CCOS \*\*\*\*\*\* \*\*\*\*\*\*\* 01 MTHSGATAND2 \*\*\*\*\*\*\* 01 MTH\$CDABS \*\*\*\*\*\*\* MTH\$DFLOOR \*\*\*\*\*\* 01 MTHSGATAND R7 \*\*\*\*\*\*\* 01 MTH\$CDCOS \*\*\*\*\*\*\* MTH\$DFLOOR\_R3 \*\*\*\*\*\*\* 01 01 MTHSGATANH \*\*\*\*\*\*\* MTH\$CDEXP \*\*\*\*\*\*\* \*\*\*\*\*\*\* 01 MTHSGATAN\_R7 \*\*\*\*\*\*\* 01 MTH\$DFLOTI MTH\$CDLOG \*\*\*\*\*\*\* MTH\$DFLOTJ \*\*\*\*\*\*\* MTH\$GCMPLX \*\*\*\*\*\*\* 01 MTH\$CDSIN \*\*\*\*\*\*\* \*\*\*\*\*\*\* 01 \*\*\*\*\*\*\* 01 MTHSDIM MTH\$GCONJG MTH\$CDSQRT \*\*\*\*\*\*\* \*\*\*\*\*\*\* MTH\$DIMAG MTH\$GCOS \*\*\*\*\*\* 01 MTH\$CEXP \*\*\*\*\*\*\* \*\*\*\*\*\*\* MTH\$DINT MTH\$GCOSD \*\*\*\*\*\*\* MTH\$CGABS \*\*\*\*\*\*\* \*\*\*\*\*\*\* MTHSDINT\_R4 MTH\$GCOSD\_R7 \*\*\*\*\*\*\* MTH\$CGCOS \*\*\*\*\*\*\* MTH\$DLOG \*\*\*\*\*\*\* \*\*\*\*\*\*\* MTH\$GCOSH MTH\$CGEXP \*\*\*\*\*\*\* MTH\$DLOG10 \*\*\*\*\*\*\* \*\*\*\*\*\*\* MTHSGCOS R7 MTH\$CGLOG 01 \*\*\*\*\*\*\* MTH\$DLOG10\_R8 \*\*\*\*\*\*\* MTH\$GDBLE \*\*\*\*\*\*\* MTH\$CGSIN 01 \*\*\*\*\*\*\* MTH\$DLOG2 \*\*\*\*\*\*\* MTH\$GDIM \*\*\*\*\*\*\* 01 MTH\$CGSQRT 01 MTH\$DLOG\_R8 01 \*\*\*\*\*\*\* \*\*\*\*\*\*\* MTH\$GEXP \*\*\*\*\*\*\* 01 MTH\$CLOG \*\*\*\*\*\*\* 01 MTH\$DMAXT \*\*\*\*\*\*\* MTHSGEXP\_R6 \*\*\*\*\*\*\* 01 MTHSGEXP R7 MTH\$CMPLX 01 MTHSDMIN1 \*\*\*\*\*\*\* \*\*\*\*\*\*\* \*\*\*\*\*\*\* 01 MTH\$CONJG \*\*\*\*\*\*\* 01 MTH\$DMOD 01 MTH\$GFLOOR 01 \*\*\*\*\*\*\* \*\*\*\*\*\*\* MTH\$COS \*\*\*\*\*\*\* MTH\$DNINT \*\*\*\*\*\*\* MTH\$GFLOOR\_R3 \*\*\*\*\*\*\* 01 01 \*\*\*\*\*\*\* MTH\$COSD \*\*\*\*\*\*\* MTH\$DPROD \*\*\*\*\*\*\* MTH\$GFLOTI 01 01 01 01 MTH\$DREAL MTH\$COSD\_R4 \*\*\*\*\*\*\* \*\*\*\*\*\*\* 01 MTH\$GFLOTJ \*\*\*\*\*\* 01 MTH\$DSIGN MTH\$COSH \*\*\*\*\*\*\* \*\*\*\*\*\*\* MTH\$GIMAG 01 \*\*\*\*\*\*\* MTH\$COS\_R4 \*\*\*\*\*\*\* MTH\$DSIN \*\*\*\*\*\*\* 01 MTH\$GINT 01 \*\*\*\*\*\*

| MTH\$VECTOR<br>Symbol table  | - Entry vector for MTHRTL.EXE C 5  16-SEP-1984 01:00:45 VAX/VMS Macro V04-00 Page 20 6-SEP-1984 11:27:25 [MTHRTL.SRC]MTHVECTOR.MAR;1 (3) |
|--|--|
| MTHSGINT_R4 MTHSGLOG10 MTHSGLOG10 R8 MTHSGLOG10 R8 MTHSGLOG2 MTHSGLOG2 MTHSGLOG2 MTHSGMAXT MTHSGMAXT MTHSGMIN1 MTHSGMIN1 MTHSGMIN1 MTHSGREAL MTHSGSINCOS MTHSGSINCOS MTHSGSINCOSD MTHSGSINCOS MTHSGSINCOSD MTHSGSINCOSD MTHSGSINCOSD MTHSGSIND MTHSGSIND MTHSGSIND MTHSGSIND MTHSGSIND MTHSGSIND MTHSGSIND MTHSGSIND MTHSGSINCOSD MTHSGSIND MTHSGTAND MTHSGTAND MTHSGTAND MTHSGTAND MTHSGTAND MTHSHACOSD MTHSHATAND MTHSHAT | ( 01 MTHSHLOG10  |

```
D 5
MTH$VECTOR
                                                                                             16-SEP-1984 01:00:45 VAX/VMS Macro V04-00 6-SEP-1984 11:27:25 [MTHRTL.SRC]MTHVECTOR.MAR;1
                                         - Entry vector for MTHRTL.EXE
                                                                                                                                                             Page
Symbol table
OTS$POWHH_R3
OTS$POWHJ_R3
OTS$POWHLO_R3
OTS$POWII
                      *******
                                         01001001001
                      *******
                      *******
                      *******
OTS$POWJJ
OTS$POWLULU
OTS$POWRD
OTS SPOWRJ
OTS$POWRLU
OTS$POWRR
                      *******
                                                                Psect synopsis
PSECT name
                                                                   PSECT No.
                                         Allocation
                                                                                Attributes
                                         00000000
00000B00
   ABS
                                                                                NOPIC
                                                                  00 ( 0.)
                                                                                          USR
                                                                                                                 LCL NOSHR NOEXE NORD
                                                                                                                                              NOWRT NOVEC BYTE
SMTHSVECTOR
                                                     ( 2816.)
                                                                  01 ( 1.)
                                                                                   PIC
                                                                                          USR
                                                                                                                                 EXE
                                                                                                                                              NOWRT NOVEC LONG
                                                                                                                  LCL
                                                                                                                         SHR
                                                                                                                                         RD
                                                            Performance indicators !
Phase
                                Page faults
                                                   CPU Time
                                                                      Elapsed Time
----
                                                   00:00:00.12
00:00:00.45
00:00:05.82
00:00:00.49
00:00:02.48
00:00:00.19
                                                                      00:00:00.63
Initialization
Command processing
                                                                      00:00:14.08
Pass 1
                                                                      00:00:01.04
Symbol table sort
                                                                      00:00:07.48
Pass 2
Symbol table output
Psect synopsis output
                                          31
                                                   00:00:00.01
                                                                      00:00:00.01
                                                   00:00:00.00
                                                                      00:00:00.00
Cross-reference output
Assembler run totals
                                                                      00:00:26.56
```

The working set limit was 1200 pages.
33785 bytes (66 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 352 non-local and 0 local symbols.
920 source lines were read in Pass 1, producing 53 object records in Pass 2.
3 pages of virtual memory were used to define 3 macros.

**\$-----**Macro library statistics !

Macro library name

Macros defined

\$255\$DUA28:[SYSLIB]STARLET.MLB:2

0

O GETS were required to define O macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/LIS=LIS\$:MTHVECTOR/OBJ=OBJ\$:MTHVECTOR MSRC\$:MTHVECTOR/UPDATE=(ENH\$:MTHVECTOR)

0264 AH-BT13A-SE

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